

# METHOD AND SYSTEM FOR DETERMINING ENGINE STATE OF A HYBRID ELECTRIC VEHICLE

## Abstract

A method and system of engine state determination includes a plurality of requestors each of which compares vehicle or environmental conditions to a requirement and outputs a request state variable. The requestors are grouped according to function or component and the request state variables are combined and simplified at the output of each group. A state machine receives the final combined and simplified request state, and evaluates it according to the active or inactive status of the requests. The state machine carries out the proper state transition and outputs the desired engine state to engine control algorithms that start or stop the engine as necessary.